ELSEVIER

Journal of Controlled Release 57 (1999) 319–320

journal of controlled release

Contents Volume 57 (1999)

Vol. 57, No. 1 (4 JANUARY 1999)

Natural rubber base matrix containing *Calendula officinalis* plant as a source of molluscicdal saponin
F.M. Helaly, A.A. Ahmed and M.A. Abd El-Ghaffar (Cairo, Egypt) 1

Encapsulation of plasmid DNA in biodegradable poly(D,L-lactic-co-glycolic acid) microspheres as a novel approach for immunogene delivery
D. Wang, D.R. Robinson (Edmonton, Canada) G.S. Kwon (Edmonton, Canada and Madison WI, USA) and J. Samuel (Edmonton, Canada) 9

Evaluation of a positively charged submicron emulsion of piroxicam on the rabbit corneum healing process following alkali burn
S.H. Klang, C.S. Siganos, S. Benita and J. Frucht-Pery (Jerusalem, Israel) 19

Improved stability of highly fluorinated phospholipid-based vesicles in the presence of bile salts
C. Gadras, C. Santaella and P. Vierling (Nice, France) 29

Evaluation of mitoxantrone-loaded albumin microspheres following intraperitoneal administration to rats
C.P. Luftensteiner, I. Schwendenwein, B. Paul, H.G. Eichler and H. Viernstein (Vienna, Austria) 35

In vivo drug release behavior in dogs from a new colon-targeted delivery system
T. Ishibashi, H. Hatano, M. Kobayashi, M. Mizobe and H. Yoshino (Osaka, Japan) 45

Asymmetric membrane capsules for osmotic drug delivery. I. Development of a manufacturing process
A.G. Thombre, J.R. Cardinal, A.R. DeNoto (Groton, CT, USA), S.M. Herbig and K.L. Smith (Bend, OR, USA) 55

Asymmetric membrane capsules for osmotic drug delivery II. In vitro and in vivo drug release performance
A.G. Thombre, J.R. Cardinal, A.R. DeNoto and D.C. Gibbes (Groton, CT, USA) 65

Influence of drug:hydroxypropylmethylcellulose ratio, drug and polymer particle size and compression force on the release of diclofenac sodium from HPMC tablets
M.V. Velasco, J.L. Ford, P. Rowe and A.R. Rajabi-Siahboomi (Liverpool, UK) 75

Synthesis and pharmacokinetics of a novel macromolecular prodrug of Tacrolimus (FK506), FK506–dextran conjugate
H. Yura, N. Yoshimura, T. Hamashima, K. Akamatsu, M. Nishikawa, Y. Takakura and M. Hashida (Kyoto, Japan) 87

Book Reviews 101

Instructions to Authors 105

Vol. 57, No. 2 (1 FEBRUARY 1999)

Review

Issues and perspectives on the biocompatibility and immunotoxicity evaluation of implanted controlled release systems
J.M. Anderson (Cleveland, OH, USA) and J.J. Langone (Rockville, MD, USA) 107

Incorporation of polymeric nanoparticles into solid dosage forms
C. Schmidt, R. Bodmeier (Berlin, Germany) 115
Spectrophotometric analysis of molecular transport in gels
E.N. Dunmire, A.M. Plenys and D.F. Katz (Durham, NC, USA) 127
Drug release from drug-polyanion complex tablets: poly(acrylamido-2-methyl-1-propanesulfonate sodium -co-methyl methacrylate)
N. Konar, C.-j. Kim (Philadelphia, PA, USA) 141
Effectiveness of ciprofloxacin microspheres in eradicating bacterial biofilm
G. Owusu-Ababio (Tallahassee, FL, USA) and J. Rogers, H. Anwar (Edmonton, Canada) 151
Cholephilic characteristics of a new cytostatic complex of cisplatin with glycocholate (Bamet-R2)
R.I.R. Macias, M.Y. El-Mir, M.J. Monte, M.A. Serrano, M.J. Garcia and J.J.G. Marin (Salamanca, Spain) 161
PLGA nanoparticles prepared by nanoprecipitation: drug loading and release studies of a water soluble drug
T. Govender, S. Stolnik, M.C. Garnett, L. Illum and S.S. Davis (Nottingham, UK) 171
Macromolecular derivatives of *N,N*-di-(2-chloroethyl)-4-phenylene diamine mustard. 2. In vitro cytotoxicity and in vivo anticancer efficacy
H. Soyez (Gent, Belgium), L.W. Seymour (Birmingham, UK) and E. Schacht (Gent, Belgium) 187
Studies on drug release kinetics from ibuprofen–carbomer hydrophilic matrix tablets: influence of co-excipients on release rate of the drug
G. Majid Khan (Dera Ismail Khan, Pakistan) and J.-B. Zhu (Nanjing, PR China) 197
The effect of methylated β-cyclodextrins on the tight junctions of the rat nasal respiratory epithelium. Electron microscopic and confocal laser scanning microscopic visualization studies
E. Marttin, J.C. Verhoef, F. Spies, J. van der Meulen, J.F. Nagelkerke, H.K. Koerten and F.W.H.M. Merkus (Leiden, The Netherlands) 205

Vol. 57, No. 3 (22 FEBRUARY 1999)

A new intragastric delivery system for the treatment of *Helicobacter pylori* associated gastric ulcer: *in vitro* evaluation
L. Yang, J. Eshraghi, R. Fassihi (Philadelphia, PA, USA) 215
Evaluation of parameters involved in preparation and release of drug loaded in crosslinked matrices of alginate
S. Al-Musa (Naor, Jordan), D. Abu Fara (Amman, Jordan) and A.A. Badwan (Naor, Jordan) 223
Controlled release of insect sex pheromones from paraffin wax and emulsions
C.A. Atterholt, M.J. Delwiche, R.E. Rice, J.M. Krochta (Davis, CA, USA) 233
In vitro release of 5-fluorouracil with cyclic core dendritic polymer
R.X. Zhuo, B. Du, Z.R. Lu (Wuhan, PRC) 249
Lidocaine-loaded biodegradable nanospheres. I. Optimization of the drug incorporation into the polymer matrix
T. Görner, R. Gref, D. Michenot (Nancy, France), F. Sommer (Marseille, France), M.N. Tran (Villeurbanne, France) and E. Dellacherie (Nancy, France) 259
Conjugation of drug to poly(D,L-lactic-co-glycolic acid) for controlled release from biodegradable microspheres
J.E. Oh (Kyunggido, South Korea), Y.S. Nam (Taejon, South Korea), K.H. Lee (Kyunggido, South Korea) and T.G. Park (Taejon, South Korea) 269
Preliminary clinical study of the distribution of HPMA copolymers bearing doxorubicin and galactosamine
P.J. Julyan, L.W. Seymour, D.R. Ferry, S. Daryani, C.M. Boivin, J. Doran, M. David, D. Anderson, C. Christodoulou, A.M. Young, S. Hesslewood, D.J. Kerr (Birmingham, UK) 281
Photopolymerization of multilaminated poly(HEMA) hydrogels for controlled release
S. Lu, K.S. Anseth (Boulder, CO, USA) 291
Determination of the internal morphology of poly (D,L-lactide) microspheres using stereological methods
T. Ehtezazi, C. Washington, C.D. Melia (Nottingham, UK) 301

Author Index Volume 57 315
Subject Index Volume 57 317
Contents Volume 57 319